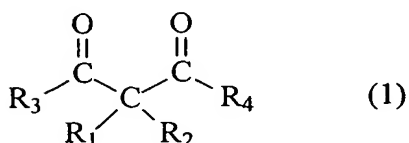


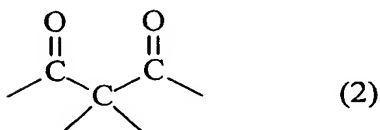
ABSTRACT

A photoinitiator is provided which exhibits excellent photosensitivity, yields colorless products, and is usable in thick layer UV curable coating. A novel chemical compound is also provided which is usable for the photoinitiator.

Photocurable composition is also provided which has these properties. The photoinitiator consists essentially of a compound having a molecular weight of 1000 or less, and having a chemical structure represented by the following formula (1),



wherein R_3 and R_4 independently denote a specific alkyl group, and R_1 and R_2 independently denote an electron attracting group or a specific alkyl group, and weight percentage of a chemical structure element represented by the following formula (2),



which is expressed in formula (1) based on the total molecular weight of the compound, is 17% to 54% by mass.

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(71) Applicant (for all designated States except US): **DAINIP-
PON INK AND CHEMICALS, INC.** [JP/JP]; 35-58,
Sakashita 3-chome, Itabashi-ku, Tokyo 174-8520 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LACHOWICZ**,
Artur [DE/DE]; Martin-Luther-Str. 55, D-13467 Berlin
(DE). **GAUDL**, Kai-Uwe [DE/DE]; Friedrich-Nauman
Strasse 39,, D-16540 Hohen Neuendorf (DE). **FERBITZ**,

Jens [DE/DE]; Ueckermuender str.11, D-10439 Berlin
(DE). **GRAHE, F., Gerwald** [DE/DE]; Leichhardt Str.13,
D-14195 Berlin (DE). **JING, Yu** [CN/CN]; Da Xue Road
No.40, Qingdao, Shandong Pre. (CN). **GUANGHUI, Wu**
[CN/CN]; Wu Ning Road No.17, Qingdao, Shandong Pre.
(CN).

(74) Agents: **SHIGA, Masatake**, et al.; OR Bldg., 23-3,
Takadanobaba 3-chome, Shinjuku-ku, Tokyo 169-8925
(JP).

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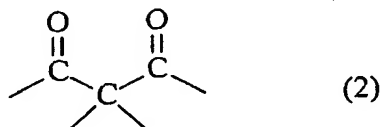
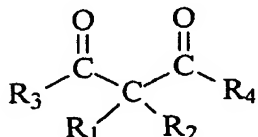
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(54) Title: PHOTOINITIATOR, NOVEL COMPOUND, AND PHOTOCURABLE COMPOSITION



(57) **Abstract:** A photoinitiator is provided which exhibits excellent photosensitivity, yields colorless products, and is usable in thick layer UVcurable coating. A novel chemical compound is also provided which is usable for the photoinitiator. Photocurable composition is also provided which has these properties. The photoinitiator consists essentially of a compound having a molecular weight of 1000 or less, and having a chemical structure represented by the following formula (1), wherein R₃ and R₄ independently denote a specific alkyl group, and R₁ and R₂ independently denote an electron attracting group or a specific alkyl group, and weight percentage of a chemical structure element represented by the following formula (2), which is expressed in formula (1) based on the total molecular weight of the compound, is 17% to 54% by mass.

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